

PCT

25 FEB 2006

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

0 6 SEP 2004

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Applicant's or agent's file reference PCT 1888HHBRon			FOR FURTHER AC	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/EP 03/09697			International filing date (01.09.2003	ate (day/month/year) Priority date (day/month/year) 30.08.2002			ar)	
		nt Classification (IPC) or bo	oth national classification a	nd IPC	,	— —		
E21B33	3/035							
Applicant					.100			
COOPE	ER CA	MERON CORPORAT	iON et al.				•	
	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
			•					
2. Thi	is REP	ORT consists of a total of	of 5 sheets, including th	is cover	sheet.			
	Thie	report is also accompar	aid by ANNEYES in	choote c	of the description	en claime and/o	r drawings	which have
	beer	n amended and are the l	basis for this report and	or shee	ts containing re	ectifications mad		
	(see	Rule 70.16 and Section	607 of the Administrati	ve instri	uctions under t	he PCT).		
The	ese anr	nexes consist of a total of	of sheets.					
3. Thi	is renor	t contains indications re	lating to the following its	me.				
_			iding to the renewing	31110.				
	⊠	Basis of the opinion						
{		Priority	······································		· · · · · · · · · · · · · · · · · · ·	. A to decadated and	11 In 1114	
			opinion with regard to no	ovelty, ir	nventive step a	nd industrial app	plicability	
IV V		Lack of unity of inventi	on ınder Rule 66.2(a)(ii) wi	L rogor	dia navalty in	reative aton or i	-dustrial a	liaahilihu
'	K2I		ons supporting such sta		u to noveity, in	venuve steb or i	NGUSUIAI a	іррпсаршіў,
VI		Certain documents cite	ed					
VII		Certain defects in the i	nternational application					
VII		Certain observations o	n the international appli	cation				:
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Date of su	oissimdu	n of the demand	Ì	Date of	completion of th	is report		
27.02.2004			03.09.	.2004				
Name and mailing address of the International				Authoria	zed Officer			has Palen.
preliminary examining authority: European Patent Office								Seemen 11 E
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Ott, S					
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International application No.

PCT/EP 03/09697

l. E	3asis	of	the	repor	t
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages					
	1-16	6	as originally filed				
	Cla	ims, Numbers					
	1-32	2	as originally filed				
	Dra	wings, Sheets					
	1/2-	2/2	as originally filed				
2.	With lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnishe ernational application was filed, unless otherwise indicated und	d to this Authority in the der this item.			
	The	se elements were av	ailable or furnished to this Authority in the following language:	, which is:			
		the language of a tra	anslation furnished for the purposes of the international search	(under Rule 23.1(b)).			
		the language of publ	ication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary 3).	examination (under			
3.	With inte	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the internation examination was carried out on the basis of the sequence listing	nal application, the g:			
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that t in the international a	he subsequently furnished written sequence listing does not gopplication as filed has been furnished.	beyond the disclosure			
		The statement that t listing has been furn	he information recorded in computer readable form is identical ished.	to the written sequence			
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

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5. l	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

s 1-32

Inventive step (IS)

Yes: Claims

No: Claims

1-32

Industrial applicability (IA)

Yes: Claims

1-32

No: Claims

2. Citations and explanations

see separate sheet

POINT V

V-1. D1: WO-0237008 discloses a rotating regulating device for the rotation and/or linear displacement of an actuating element of a valve, throttle, blowout preventer or similar, in particular in the field of gas or oil production (p.1, I.1-6), with a spindle drive (45) and a drive train (46) rotationally driving the spindle drive, the said drive train exhibiting at least one reduction gear unit (44) and a drive device (43) connected to it for movement, wherein the rotating spindle or nut of the spindle drive exhibits at least one engaging element (17) essentially protruding radially outwards, which engages guide slots (11-14), whereby a first guide slot (14) is fixed relative to a device housing and a second guide slot (12) can be rotated relative to the device housing and/or is supported for displacement in the longitudinal direction of the rotating spindle, whereby the guide slots exhibit at least different slopes in the longitudinal direction (p.9, I.9-11) of the rotating spindle and the movable guide slot is connected for movement to the actuating element (4).

The subject-matter of claim 1 does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.

- V-2. D1 also discloses the subject-matter of claim 2-13, 17, 29-30 and the subjectmatter of said claims does therefore not meet the requirements of novelty in the sense of Art. 33(2) PCT.
- V-3. D1 in combination with D2: US-5370011 disclose the subject-matter of claims 14-16, 22, 31, 32 since D2 discloses the use of both a harmonic drive and a position sensor.
 - D1 in combination with D3: US-5497672 discloses the subject-mattef of claims 18-21, 23, 24.
 - D1 in combination with D4: DE-3607899 discloses the subject-matter of claim 25-28 since D4 discloses the use of of several drive shafts.
- V-4. The subject-matter of claims 15-23 and 32 does not meet the requirements of clarity in the sense of Art. 6 PCT. Said claims are dependent claim any of the previous claims and mention features (such as the harmonic drive, claim 15) which have not been previously introduced (harmonic drive only mentioned in claim 14).



V-5. Following defect is pointed out:

Rule 6.3b)i) and ii) PCT: incorrect two part form of independent claim with regard to D1.